

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-278966

(43)Date of publication of application : 22.10.1996

(51)Int.Cl.

G06F 17/24

(21)Application number : 07-081014

(71)Applicant : FUJITSU LTD

(22)Date of filing : 06.04.1995

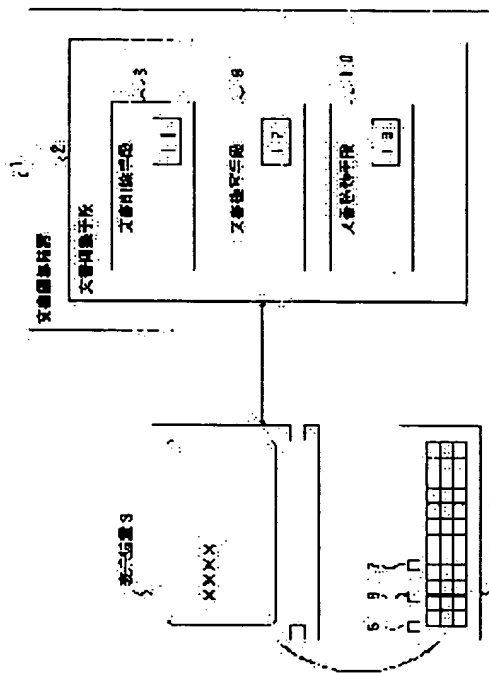
(72)Inventor : ISOMURA HIROSHI

## (54) DOCUMENT EDITING DEVICE

### (57)Abstract:

**PURPOSE:** To provide the document editing device which performs a document editing process with less errors.

**CONSTITUTION:** Of the document editing device equipped with a document deleting means 8 which is called in response to the operation of a deletion key to set a document deletion area and performs a document deleting process for the document part in the document deletion area, a document copying means 9 which is called in response to the operation of a copy key to set a document copy area and performs a document copying process for the document part in the document copy area, and a document moving means 10 which is called in response to the operation of a movement key to sets a document movement area and performs a document moving process for the document part in the document movement area, the document deleting means 8 displays the document part in the document deletion area in a different display style from the document parts in the document copy area and document movement area.



## LEGAL STATUS

[Date of request for examination]

08.03.2000

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than  
the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number] 3202530

[Date of registration] 22.06.2001

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

CLAIMS

---

[Claim(s)]

[Claim 1] Document edit equipment characterized by taking the composition as which a document deletion means displays the document portion of a document deletion field in the document edit equipment characterized by providing the following with a different display gestalt from the document portions of a document copy field and a document move field. A document deletion means for it to be answered and called to operation of a deletion key, to set up a document deletion field, and to perform document deletion to the document portion of this document deletion field. A document copy means for it to be answered and called to operation of a duplicate key, to set up a document copy field, and to perform document copy processing to the document portion of this document copy field. A document move means for it to be answered and called to operation of a navigation key, to set up a document move field, and to perform document move processing to the document portion of this document move field.

[Claim 2] In the document edit equipment characterized by providing the following a document deletion means The document portion of a document deletion field is expressed as a different display gestalt from the document portions of a document copy field and a document move field. A document copy means expresses the document portion of a document copy field as a different display gestalt from the document portions of a document deletion field and a document move field. Document edit equipment characterized by taking the composition whose document move means displays the document portion of a document move field with a different display gestalt from the document portions of a document deletion field and a document copy field. A document deletion means for it to be answered and called to operation of a deletion key, to set up a document deletion field, and to perform document deletion to the document portion of this document deletion field. A document copy means for it to be answered and called to operation of a duplicate key, to set up a document copy field, and to perform document copy processing to the document portion of this document copy field. A document move means for it to be answered and called to operation of a navigation key, to set up a document move field, and to perform document move processing to the document portion of this document move field.

[Claim 3] It is document edit equipment characterized by processing so that a document deletion means may erase the document portion of a document deletion field in document edit equipment according to claim 1 or 2 and it may display with a line.

---

[Translation done.]

**\* NOTICES \***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DETAILED DESCRIPTION**

---

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the document edit equipment which performs few document edit processing of error generating especially about the document edit equipment which performs document edit processing.

[0002] With document edit equipment, document edit processing is performed by performing deletion, a copy, and movement of a document, conversing with a user. It is necessary to build the composition which can perform efficient document edit processing because these document edit processings are made not to perform accidentally after this.

[0003]

[Description of the Prior Art] If composition equipped with three document editing keys called the deletion key of a document, the duplicate key of a document, and the navigation key of a document is taken with document edit equipment and a deletion key is pushed If a document deletion field is set up in conversing with a user following it, document edit processing in which the document portion of the document deletion field is deleted is performed and a duplicate key is pushed it -- then, if a document copy field is set up in conversing with a user, document edit processing in which the document portion of the document copy field is copied at the appointed copy place is performed and a navigation key is pushed it -- then, a document move field is set up in conversing with a user, and document edit processing in which it moves to the copy place of specification of the document portion of the document move field is performed

[0004] With the conventional document edit equipment which takes such composition, the composition of expressing all of the document portion of a document deletion field, the document portion of a document copy field, and the document portion of a document move field as the same display gestalt is taken. That is, the composition of expressing all of the document portion of three kinds of these fields as the same display gestalt is taken as are shown in drawing 9 , and the document portion of a document copy field will be similarly displayed with an underline and the document portion of a document move field will be similarly displayed with an underline, if the document portion of a document deletion field is displayed with an underline.

[0005] In addition, when the deletion of a document is under execution, "deletion" is displayed, when copy processing of a document is under execution, "a copy" is displayed, and as shown in drawing 9 , when move processing of a document is under execution, at the end of a screen, "movement" is displayed.

[0006]

[Problem(s) to be Solved by the Invention] However, when such conventional technology was followed, there was a trouble that mistaken document edit processing will be performed from the ability of a user not to notice the operation mistake of a document editing key easily.

[0007] Namely, although a certain document portion is deleted, even if a user pushes a duplicate key and a navigation key accidentally Although it is hard to notice the error since the display gestalt of a

document deletion field and the display gestalt of a document copy field and a document move field are the same, and a certain document portion is copied Although it is hard to notice the error since the display gestalt of a document copy field and the display gestalt of a document deletion field and a document move field are the same even if it pushes a deletion key and a navigation key accidentally, and a certain document portion is moved Since the display gestalt of a document move field and the display gestalt of a document deletion field and a document copy field are the same and it is hard to notice the error even if it pushes a deletion key and a duplicate key accidentally, mistaken document edit processing may be performed.

[0008] Especially this trouble will become big when a document is deleted by the operation mistake of the deletion key being carried out. this invention is made in view of this situation, and aims at offer of new document edit equipment which performs few document edit processing of error generating.

[0009]

[Means for Solving the Problem] The principle composition of this invention is illustrated to drawing 1 . One is equipped with a document edit means 2 is document edit equipment, and deletes and copies a document and move to provide this invention, among drawing. The deletion key 5 which what performs edit processing of a document, and 3 are display connected to document edit equipment 1, and what displays the document for edit, and 4 are keyboards connected to document edit equipment 1, and directs deletion of a document, It has the duplicate key 6 which directs the copy of a document, and the navigation key 7 which directs movement of a document, and functions as a dialog means with a user.

[0010] This document edit means 2 is equipped with the document deletion means 8, the document copy means 9, and the document move means 10. This document deletion means 8 is answered and called to operation of the deletion key 5, sets up a document deletion field in conversing with a user, performs document deletion which deletes the document portion of the document deletion field, and is equipped with a document deletion field setting means 11 to set up a document deletion field.

[0011] The document copy means 9 is answered and called to operation of a duplicate key 6, sets up a document copy field in conversing with a user, performs document copy processing copied at the copy place which has the document portion of the document copy field specified, and is equipped with a document copy field setting means 12 to set up a document copy field.

[0012] The document move means 10 is answered and called to operation of a navigation key 7, a document move field is set up in conversing with a user, document move processing which moves to the movement place which has the document portion of the document move field specified is performed, and it has a document move field setting means 13 to set up a document move field.

[0013]

[Function] A document deletion field setting means 11 takes the composition display at a different display form from the document portion of the document copy field where the document copy field setting means 12 sets up the document portion of a document deletion field, and the document portion of a document move field which the document move field setting means 13 sets up that the document portion of a document deletion field and the document portions of a document copy field and a document move field should express as a different display form in this invention.

[0014] That the document portion of a document deletion field, the document portion of a document copy field, and the document portion of a document move field should be expressed as a display form different, respectively in this invention moreover, the document deletion field setting means 11 The document portion of the document copy field where the document copy field setting means 12 sets up the document portion of a document deletion field, The composition displayed with a different display form from the document portion of the document move field which the document move field setting means 13 sets up is taken. the document copy field setting means 12 The document portion of the document deletion field where the document deletion field setting means 11 sets up the document portion of a document copy field, The composition displayed with a different display form from the document portion of the document move field which the document move field setting means 13 sets up is taken. the document move field setting means 13 The composition which displays the document portion of a document move field with a different display form from the document portion of the

document deletion field which the document deletion field setting means 11 sets up, and the document portion of the document copy field which the document copy field setting means 12 sets up is taken. [0015] Thus, in this invention, since the display form of a document deletion field and the display form of a document copy field and a document move field are made to differ, even if a user operates the deletion key 5 accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

[0016] Moreover, in this invention, since the display form of a document deletion field, the display form of a document copy field, and the display form of a document move field are made to differ, respectively, even if a user operates the deletion key 5, a duplicate key 6, and a navigation key 7 accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

[0017]

[Example] Hereafter, according to an example, this invention is explained in detail. One example of the program composition which the document edit equipment 1 of this invention has in drawing 2 is illustrated.

[0018] What 20 are a document editor program among drawing, and performs document edit processing by deleting and copying a document and moving, 21 is a deletion program developed by the document editor program 20, and is answered and called to operation of the deletion key 5, and a document deletion field is set up in conversing with a user. What performs document deletion which deletes the document portion of the document deletion field, 22 is a copying program developed by the document editor program 20, and is answered and called to operation of a duplicate key 6, and a document copy field is set up in conversing with a user. What performs document copy processing copied at the copy place which has the document portion of the document copy field specified, It is the thing thing which performs document move processing which moves to the movement place which 23 is [ place ] a move program developed by the document editor program 20, and is answered and called [ place ] to operation of a navigation key 7, and a document move field is set [ place ] up in conversing with a user, and has the document portion of the document move field specified.

[0019] 24 is 1st range display sub routine developed by the document editor program 20. What is called, erases the document portion of the document deletion field set up, and is displayed with a line from the deletion program 21, 25 is 2nd range display sub routine developed by the document editor program 20. What is called from a copying program 22 and displays the document portion of the document copy field set up with an underline, 26 is 3rd range display sub routine developed by the document editor program 20, is called from the move program 23 and carries out the inverse video of the document portion of the document move field set up.

[0020] One example of the processing flow which the document edit equipment 1 of this invention which takes this program composition to drawing 3 and drawing 4 performs is illustrated. Next, according to this processing flow, this invention is explained in detail.

[0021] It progresses to Step 3, document edit end processing is performed, and the document edit equipment 1 of this invention ends processing, when judging that are Step 2, judged whether it was that end directions of document edit were published by the user, and end directions of document edit were published when it is Step 1 as shown in drawing 3 and the processing flow of drawing 4 , and document edit start processing was performed.

[0022] On the other hand, when judging that end directions of document edit are not published When progressing to Step 4, judging whether it is that copy directions of a document were published from the user by a duplicate key 6 being operated and judging that copy directions are not published When progressing to Step 5, judging whether it is that move directions of a document were published from the user by a navigation key 7 being operated and judging that move directions are not published It progresses to Step 6 and judges whether it is that deletion directions of a document were published from the user by the deletion key 5 being operated.

[0023] processing of this step 4 or Step 6 -- any of copy directions / move directions / deletion directions of a document -- although, when judging not being published When progressing to Step 7, judging

whether it is that other edit directions were published from the user and judging not being published. When returning to Step 2 then and judging having been published, after performing the published document edit processing at Step 8, it returns to Step 2.

[0024] It goes into document deletion by on the other hand, calling the deletion program 21 which uses the 1st range display sub routine 24, when judging that deletion directions of a document were published at Step 6, and it progresses to Step 9, and at Step 10 which enters and follows a setup of the document deletion range by detecting cursor operation of a user, it erases to the document portion of the document deletion range to set up, and the line is attached. That is, as shown in drawing 5 (a), the document portion of the document deletion range is erased and it displays with a line.

[0025] Then, when continuing setting processing of the document deletion range by returning to Step 9 when judging whether it is that the document deletion range was decided by detecting cursor operation of a user and judging un-deciding [ of the document deletion range ] at Step 11 and judging decision of the document deletion range, the document portion of the document deletion range which progressed to Step 12 and was decided is deleted. And it returns to Step 2.

[0026] On the other hand, when judging that copy directions of a document were published at Step 4, document copy processing is started by calling the copying program 22 which uses the 2nd range display sub routine 25, it progresses to Step 13, and the underline is attached to the document portion of the document copy [ to set up ] former range at Step 14 which enters and follows a setup of the document copy former range by detecting cursor operation of a user. That is, as shown in drawing 5 (b), the document portion of the document copy former range is displayed with an underline.

[0027] Then, when continuing setting processing of the document copy former range by returning to Step 13 when judging whether it is that the document copy former range was decided by detecting cursor operation of a user and judging un-deciding [ of the document copy former range ] at Step 15 and judging decision of the document copy former range, it enters to a setup of a document copy place by progressing to Step 16 and detecting cursor operation of a user. Then, when continue setting processing of a document copy place by returning to Step 16 when judging whether it is that the document copy place was decided by detecting cursor operation of a user and judging un-deciding [ of a document copy place ] at Step 17 and judging decision of a document copy place, the document portion of the document copy former range which progressed to Step 18 and was decided copies to the settled document copy place. And it returns to Step 2.

[0028] On the other hand, when judging that move directions of a document were published at Step 5, document move processing is started by calling the move program 23 which uses the 3rd range display sub routine 26, and it progresses to Step 19, and it enters to a setup of the document move former range by detecting cursor operation of a user, and inverse video is carried out in the document portion of the document move [ to set up ] former range at the step 20 continue. That is, as shown in drawing 5 (c), the inverse video of the document portion of the document move former range is carried out.

[0029] Then, when continuing setting processing of the document move former range by returning to Step 19 when judging whether it is that the document move former range was decided by detecting cursor operation of a user and judging un-deciding [ of the document move former range ] at Step 21 and judging decision of the document move former range, it enters to a setup of a document movement place by progressing to Step 22 and detecting cursor operation of a user. Then, when continue setting processing of a document movement place by returning to Step 22 when judging whether it is that the document movement place was decided by detecting cursor operation of a user and judging un-deciding [ of a document movement place ] at Step 23 and judging decision of a document movement place, the document portion of the document move former range which progressed to Step 24 and decided copies to the document movement place decided. And it returns to Step 2.

[0030] Thus, in this invention, since the display gestalt of the document deletion range, the display gestalt of the document copy former range, and the display gestalt of the document move former range are made to differ, respectively, even if a user operates the deletion key 5, a duplicate key 6, and a navigation key 7 accidentally, he can notice the error immediately.

[0031] Although the composition the display gestalt of the document deletion range, the display gestalt

of the document copy former range, and the display gestalt of the document move former range are made to differ, respectively was taken in this example, it is effective also in taking the composition the display gestalt of the document deletion range and the display gestalt of the document copy former range and the document move former range are made to differ.

[0032] At this time, the move program 23 will call the range display sub routine which a copying program 22 calls. That is, when a copying program 22 calls the 2nd range display sub routine 25, it replaces with the processing flow of drawing 4, and the move program 23 displays the document portion of the document move former range with an underline by performing the processing flow of drawing 6 which calls the 2nd range display sub routine 25. [0033] Moreover, although the composition which deletes and copies the part in a document and moves was taken in this example, when deleting and copying the document portion which the rectangle field in a document has and moving, as shown in drawing 7, it can apply as it is.

[0034] Thus, this invention is taking the composition which uses the range display routine which performs the display gestalt from which the deletion program 21, a copying program 22, and the move program 23 differ, and takes the composition which solves the trouble of the conventional technology. On the other hand, with the conventional technology, since the deletion program 21, the copying program 22, and the move program 23 have taken the composition which uses the same range display routine as shown in drawing 8, it happens that mistaken document edit processing will be performed.

[0035]

[Effect of the Invention] As explained above, in this invention, answer operation of a deletion key and a document deletion field is set up. Perform document deletion to the document portion of the document deletion field, and operation of a duplicate key is answered. Set up a document copy field, perform document copy processing to the document portion of the document copy field, and operation of a navigation key is answered. A document move field is set up, and when taking the composition which performs document move processing to the document portion of the document move field, it is. The display gestalt of a document deletion field, Since the display gestalt of a document copy field and a document move field is made to differ, even if a user operates a deletion key accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

[0036] Moreover, in this invention, since the display gestalt of a document deletion field, the display gestalt of a document copy field, and the display gestalt of a document move field are made to differ, respectively, even if a user operates a deletion key, a duplicate key, and a navigation key accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

---

[Translation done.]



**\* NOTICES \***

**Japan Patent Office is not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL FIELD**

---

[Industrial Application] this invention relates to the document edit equipment which performs few document edit processing of error generating especially about the document edit equipment which performs document edit processing.

[0002] With document edit equipment, document edit processing is performed by performing deletion, a copy, and movement of a document, conversing with a user. It is necessary to build the composition which can perform efficient document edit processing because these document edit processings are made not to perform accidentally after this.

---

[Translation done.]

**\* NOTICES \***

**Japan Patent Office is not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**PRIOR ART**

---

[Description of the Prior Art] If composition equipped with three document editing keys called the deletion key of a document, the duplicate key of a document, and the navigation key of a document is taken with document edit equipment and a deletion key is pushed If a document deletion field is set up in conversing with a user following it, document edit processing in which the document portion of the document deletion field is deleted is performed and a duplicate key is pushed it -- then, if a document copy field is set up in conversing with a user, document edit processing in which the document portion of the document copy field is copied at the appointed copy place is performed and a navigation key is pushed it -- then, a document move field is set up in conversing with a user, and document edit processing in which it moves to the copy place of specification of the document portion of the document move field is performed

[0004] With the conventional document edit equipment which takes such composition, the composition of expressing all of the document portion of a document deletion field, the document portion of a document copy field, and the document portion of a document move field as the same display gestalt is taken. That is, the composition of expressing all of the document portion of three kinds of these fields as the same display gestalt is taken as are shown in drawing 9 , and the document portion of a document copy field will be similarly displayed with an underline and the document portion of a document move field will be similarly displayed with an underline, if the document portion of a document deletion field is displayed with an underline.

[0005] In addition, when the deletion of a document is under execution, "deletion" is displayed, when copy processing of a document is under execution, "a copy" is displayed, and as shown in drawing 9 , when move processing of a document is under execution, at the end of a screen, "movement" is displayed.

---

[Translation done.]

**\* NOTICES \***

**Japan Patent Office is not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**EFFECT OF THE INVENTION**

---

[Effect of the Invention] As explained above, in this invention, operation of a deletion key is answered and a document deletion field is set up. Perform document deletion to the document portion of the document deletion field, and operation of a duplicate key is answered. Set up a document copy field, perform document copy processing to the document portion of the document copy field, and operation of a navigation key is answered. A document move field is set up, and when taking the composition which performs document move processing to the document portion of the document move field, it is. The display form of a document deletion field, Since the display form of a document copy field and a document move field is made to differ, even if a user operates a deletion key accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing. [0036] Moreover, in this invention, since the display gestalt of a document deletion field, the display gestalt of a document copy field, and the display gestalt of a document move field are made to differ, respectively, even if a user operates a deletion key, a duplicate key, and a navigation key accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

---

[Translation done.]

**\* NOTICES \***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL PROBLEM**

---

[Problem(s) to be Solved by the Invention] However, when such conventional technology was followed, there was a trouble that mistaken document edit processing will be performed from the ability of a user not to notice the operation mistake of a document editing key easily.

[0007] Namely, although a certain document portion is deleted, even if a user pushes a duplicate key and a navigation key accidentally Although it is hard to notice the error since the display form of a document deletion field and the display form of a document copy field and a document move field are the same, and a certain document portion is copied Although it is hard to notice the error since the display form of a document copy field and the display form of a document deletion field and a document move field are the same even if it pushes a deletion key and a navigation key accidentally, and a certain document portion is moved Since the display form of a document move field and the display form of a document deletion field and a document copy field are the same and it is hard to notice the error even if it pushes a deletion key and a duplicate key accidentally, mistaken document edit processing may be performed.

[0008] Especially this trouble will become big when a document is deleted by the operation mistake of the deletion key being carried out. this invention is made in view of this situation, and aims at offer of new document edit equipment which performs few document edit processing of error generating.

---

[Translation done.]

**\* NOTICES \***

**Japan Patent Office is not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**MEANS**

---

[Means for Solving the Problem] The principle composition of this invention is illustrated to drawing 1. One is equipped with a document edit means 2 is document edit equipment, and deletes and copies a document and move to provide this invention, among drawing. The deletion key 5 which what performs edit processing of a document, and 3 are display connected to document edit equipment 1, and what displays the document for edit, and 4 are keyboards connected to document edit equipment 1, and directs deletion of a document, It has the duplicate key 6 which directs the copy of a document, and the navigation key 7 which directs movement of a document, and functions as a dialog means with a user.

[0010] This document edit means 2 is equipped with the document deletion means 8, the document copy means 9, and the document move means 10. This document deletion means 8 is answered and called to operation of the deletion key 5, sets up a document deletion field in conversing with a user, performs document deletion which deletes the document portion of the document deletion field, and is equipped with a document deletion field setting means 11 to set up a document deletion field.

[0011] The document copy means 9 is answered and called to operation of a duplicate key 6, sets up a document copy field in conversing with a user, performs document copy processing copied at the copy place which has the document portion of the document copy field specified, and is equipped with a document copy field setting means 12 to set up a document copy field.

[0012] The document move means 10 is answered and called to operation of a navigation key 7, a document move field is set up in conversing with a user, document move processing which moves to the movement place which has the document portion of the document move field specified is performed, and it has a document move field setting means 13 to set up a document move field.

---

[Translation done.]

**\* NOTICES \***

**Japan Patent Office is not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**OPERATION**

---

[Function] A document deletion field setting means 11 takes the composition display at a different display form from the document portion of the document copy field where the document copy field setting means 12 sets up the document portion of a document deletion field, and the document portion of a document move field which the document move field setting means 13 sets up that the document portion of a document deletion field and the document portions of a document copy field and a document move field should express as a different display form in this invention.

[0014] Moreover, the document deletion field setting means 11 is that the document portion of a document deletion field, the document portion of a document copy field, and the document portion of a document move field should be expressed as a display form different, respectively in this invention. The document portion of the document copy field where the document copy field setting means 12 sets up the document portion of a document deletion field, The composition displayed with a different display form from the document portion of the document move field which the document move field setting means 13 sets up is taken. the document copy field setting means 12 The document portion of the document deletion field where the document deletion field setting means 11 sets up the document portion of a document copy field, The composition displayed with a different display form from the document portion of the document move field which the document move field setting means 13 sets up is taken. the document move field setting means 13 The composition which displays the document portion of a document move field with a different display form from the document portion of the document deletion field which the document deletion field setting means 11 sets up, and the document portion of the document copy field which the document copy field setting means 12 sets up is taken.

[0015] Thus, in this invention, since the display gestalt of a document deletion field and the display gestalt of a document copy field and a document move field are made to differ, even if a user operates the deletion key 5 accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

[0016] Moreover, in this invention, since the display gestalt of a document deletion field, the display gestalt of a document copy field, and the display gestalt of a document move field are made to differ, respectively, even if a user operates the deletion key 5, a duplicate key 6, and a navigation key 7 accidentally, he will notice the error and can prevent inconvenient generating of performing mistaken document edit processing.

---

[Translation done.]

## \* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

EXAMPLE

---

[Example] Hereafter, according to an example, this invention is explained in detail. One example of the program composition which the document edit equipment 1 of this invention has in drawing 2 is illustrated.

[0018] What 20 are a document editor program among drawing, and performs document edit processing by deleting and copying a document and moving, 21 is a deletion program developed by the document editor program 20, and is answered and called to operation of the deletion key 5, and a document deletion field is set up in conversing with a user. What performs document deletion which deletes the document portion of the document deletion field, 22 is a copying program developed by the document editor program 20, and is answered and called to operation of a duplicate key 6, and a document copy field is set up in conversing with a user. What performs document copy processing copied at the copy place which has the document portion of the document copy field specified, It is the thing thing which performs document move processing which moves to the movement place which 23 is [ place ] a move program developed by the document editor program 20, and is answered and called [ place ] to operation of a navigation key 7, and a document move field is set [ place ] up in conversing with a user, and has the document portion of the document move field specified.

[0019] 24 is 1st range display sub routine developed by the document editor program 20. What is called, erases the document portion of the document deletion field set up, and is displayed with a line from the deletion program 21, 25 is 2nd range display sub routine developed by the document editor program 20. What is called from a copying program 22 and displays the document portion of the document copy field set up with an underline, 26 is 3rd range display sub routine developed by the document editor program 20, is called from the move program 23 and carries out the inverse video of the document portion of the document move field set up.

[0020] One example of the processing flow which the document edit equipment 1 of this invention which takes this program composition to drawing 3 and drawing 4 performs is illustrated. Next, according to this processing flow, this invention is explained in detail.

[0021] It progresses to Step 3, document edit end processing is performed, and the document edit equipment 1 of this invention ends processing, when judging that are Step 2, judged whether it was that end directions of document edit were published by the user, and end directions of document edit were published when it is Step 1 as shown in drawing 3 and the processing flow of drawing 4, and document edit start processing was performed.

[0022] On the other hand, when judging that end directions of document edit are not published When progressing to Step 4, judging whether it is that copy directions of a document were published from the user by a duplicate key 6 being operated and judging that copy directions are not published When progressing to Step 5, judging whether it is that move directions of a document were published from the user by a navigation key 7 being operated and judging that move directions are not published It progresses to Step 6 and judges whether it is that deletion directions of a document were published from the user by the deletion key 5 being operated.

[0023] processing of this step 4 or Step 6 -- any of copy directions / move directions / deletion directions

of a document -- although, when judging not being published When progressing to Step 7, judging whether it is that other edit directions were published from the user and judging not being published When returning to Step 2 then and judging having been published, after performing the published document edit processing at Step 8, it returns to Step 2.

[0024] It goes into document deletion by on the other hand, calling the deletion program 21 which uses the 1st range display sub routine 24, when judging that deletion directions of a document were published at Step 6, and progresses to Step 9, and at Step 10 which enters and follows a setup of the document deletion range by detecting cursor operation of a user, it erases to the document portion of the document deletion range to set up, and the line is attached. That is, as shown in drawing 5 (a), the document portion of the document deletion range is erased and it displays with a line.

[0025] Then, when continuing setting processing of the document deletion range by returning to Step 9 when judging whether it is that the document deletion range was decided by detecting cursor operation of a user and judging un-deciding [ of the document deletion range ] at Step 11 and judging decision of the document deletion range, the document portion of the document deletion range which progressed to Step 12 and was decided is deleted. And it returns to Step 2.

[0026] On the other hand, when judging that copy directions of a document were published at Step 4, document copy processing is started by calling the copying program 22 which uses the 2nd range display sub routine 25, it progresses to Step 13, and the underline is attached to the document portion of the document copy [ to set up ] former range at Step 14 which enters and follows a setup of the document copy former range by detecting cursor operation of a user. That is, as shown in drawing 5 (b), the document portion of the document copy former range is displayed with an underline.

[0027] Then, when continuing setting processing of the document copy former range by returning to Step 13 when judging whether it is that the document copy former range was decided by detecting cursor operation of a user and judging un-deciding [ of the document copy former range ] at Step 15 and judging decision of the document copy former range, it enters to a setup of a document copy place by progressing to Step 16 and detecting cursor operation of a user. Then, when continue setting processing of a document copy place by returning to Step 16 when judging whether it is that the document copy place was decided by detecting cursor operation of a user and judging un-deciding [ of a document copy place ] at Step 17 and judging decision of a document copy place, the document portion of the document copy former range which progressed to Step 18 and was decided copies to the settled document copy place. And it returns to Step 2.

[0028] On the other hand, when judging that move directions of a document were published at Step 5, document move processing is started by calling the move program 23 which uses the 3rd range display sub routine 26, and it progresses to Step 19, and it enters to a setup of the document move former range by detecting cursor operation of a user, and inverse video is carried out in the document portion of the document move [ to set up ] former range at the step 20 continue. That is, as shown in drawing 5 (c), the inverse video of the document portion of the document move former range is carried out.

[0029] Then, when continuing setting processing of the document move former range by returning to Step 19 when judging whether it is that the document move former range was decided by detecting cursor operation of a user and judging un-deciding [ of the document move former range ] at Step 21 and judging decision of the document move former range, it enters to a setup of a document movement place by progressing to Step 22 and detecting cursor operation of a user. Then, when continue setting processing of a document movement place by returning to Step 22 when judging whether it is that the document movement place was decided by detecting cursor operation of a user and judging un-deciding [ of a document movement place ] at Step 23 and judging decision of a document movement place, the document portion of the document move former range which progressed to Step 24 and decided copies to the document movement place decided. And it returns to Step 2.

[0030] Thus, in this invention, since the display gestalt of the document deletion range, the display gestalt of the document copy former range, and the display gestalt of the document move former range are made to differ, respectively, even if a user operates the deletion key 5, a duplicate key 6, and a navigation key 7 accidentally, he can notice the error immediately.



[0031] Although the composition the display gestalt of the document deletion range, the display gestalt of the document copy former range, and the display gestalt of the document move former range are made to differ, respectively was taken in this example, it is effective also in taking the composition the display gestalt of the document deletion range and the display gestalt of the document copy former range and the document move former range are made to differ.

[0032] At this time, the move program 23 will call the range display sub routine which a copying program 22 calls. That is, when a copying program 22 calls the 2nd range display sub routine 25, it replaces with the processing flow of drawing 4, and the move program 23 displays the document portion of the document move former range with an underline by performing the processing flow of drawing 6 which calls the 2nd range display sub routine 25.

[0033] Moreover, although the composition which deletes and copies the part in a document and moves was taken in this example, when deleting and copying the document portion which the rectangle field in a document has and moving, as shown in drawing 7, it can apply as it is.

[0034] Thus, this invention is taking the composition which uses the range display routine which performs the display gestalt from which the deletion program 21, a copying program 22, and the move program 23 differ, and takes the composition which solves the trouble of the conventional technology. On the other hand, with the conventional technology, since the deletion program 21, the copying program 22, and the move program 23 have taken the composition which uses the same range display routine as shown in drawing 8, it happens that mistaken document edit processing will be performed.

---

[Translation done.]

**\* NOTICES \***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DESCRIPTION OF DRAWINGS**

---

[Brief Description of the Drawings]

[Drawing 1] It is the principle block diagram of this invention.

[Drawing 2] It is one example of the program composition which the document edit equipment of this invention has.

[Drawing 3] It is one example of the processing flow which the document edit equipment of this invention performs.

[Drawing 4] It is one example of the processing flow which the document edit equipment of this invention performs.

[Drawing 5] It is one example of display processing which the document edit equipment of this invention performs.

[Drawing 6] They are other examples of the processing flow which the document edit equipment of this invention performs.

[Drawing 7] They are other examples of display processing which the document edit equipment of this invention performs.

[Drawing 8] It is explanatory drawing of the conventional technology.

[Drawing 9] It is explanatory drawing of the conventional technology.

[Description of Notations]

1 Document Edit Equipment

2 Document Edit Means

3 Display

4 Keyboard

5 Deletion Key

6 Duplicate Key

7 Navigation Key

8 Document Deletion Means

9 Document Copy Means

10 Document Move Means

11 Document Deletion Field Setting Means

12 Document Copy Field Setting Means

13 Document Move Field Setting Means

---

[Translation done.]

## \* NOTICES \*

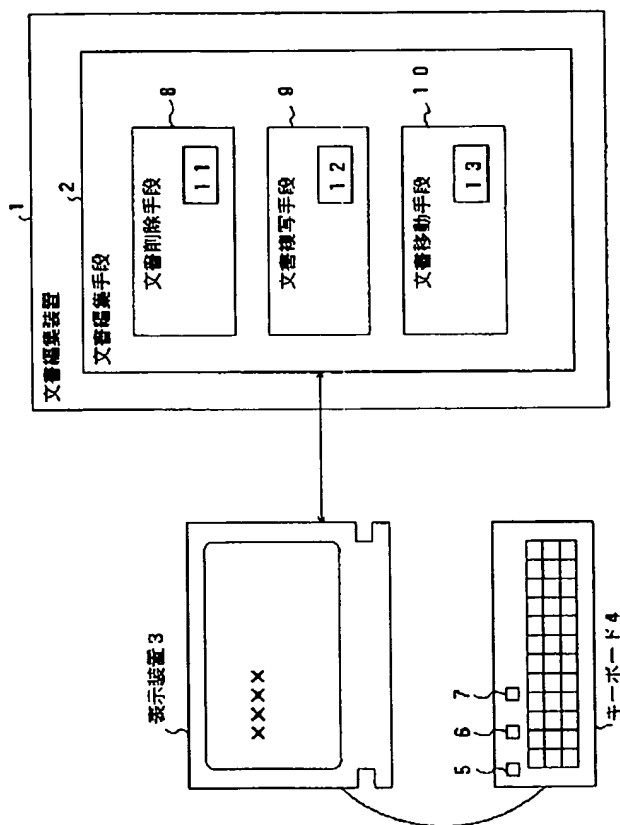
Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## DRAWINGS

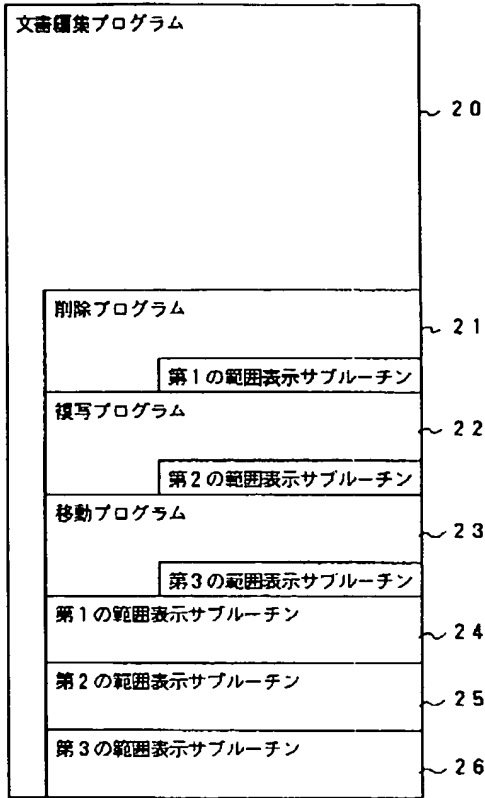
[Drawing 1]

本発明の原理構成図

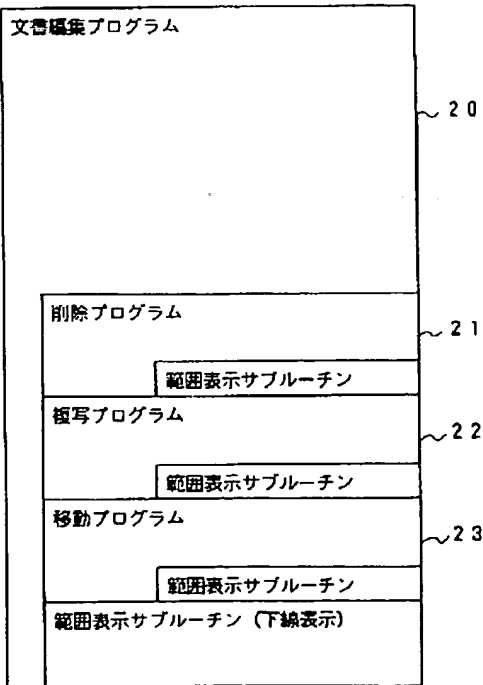


[Drawing 2]

本発明の文書編集装置が持つプログラム構成の一実施例

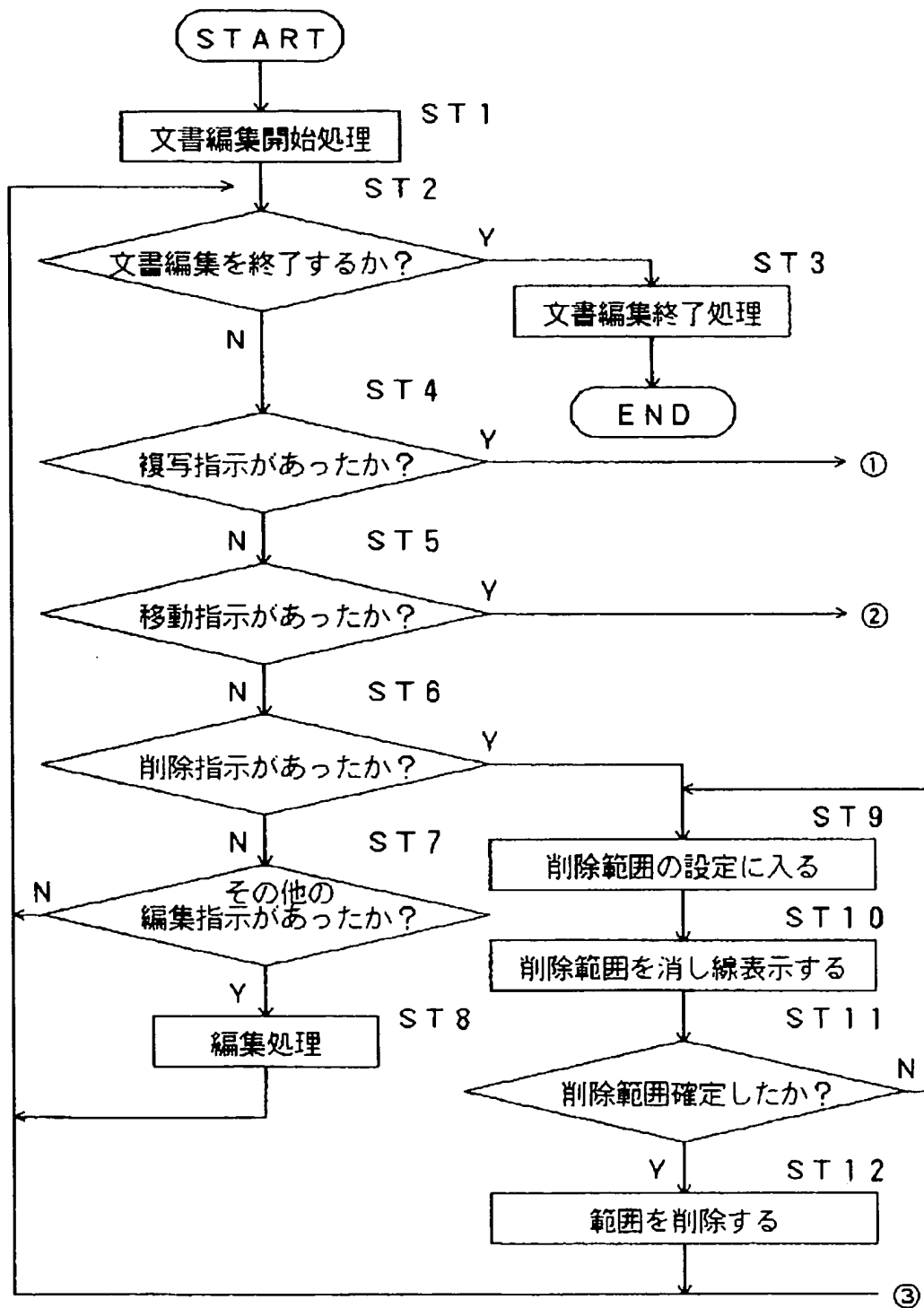


[Drawing 8]  
従来技術の説明図



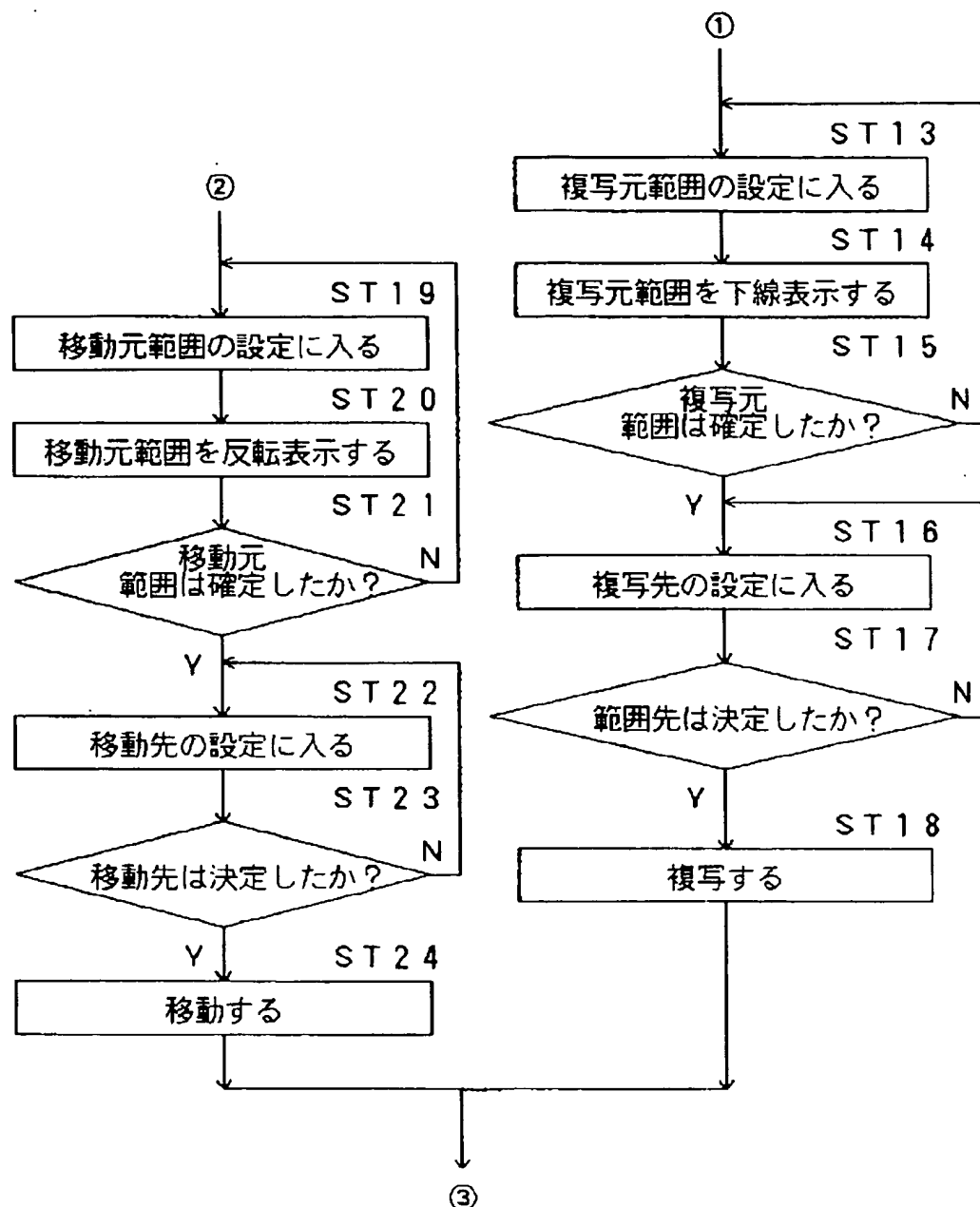
[Drawing 3]

本発明の文書編集装置が実行する処理フローの一実施例



[Drawing 4]

本発明の文書編集装置が実行する処理フローの一実施例



[Drawing 5]

本発明の文書編集装置が実行する表示処理の一実施例

実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

削除

(a)

実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

複写

(b)

実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

移動

(c)

[Drawing 7]

本発明の文書編集装置が実行する表示処理の他の実施例

実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

削除

(a)

実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

複写

(b)

実施例

反転表示

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

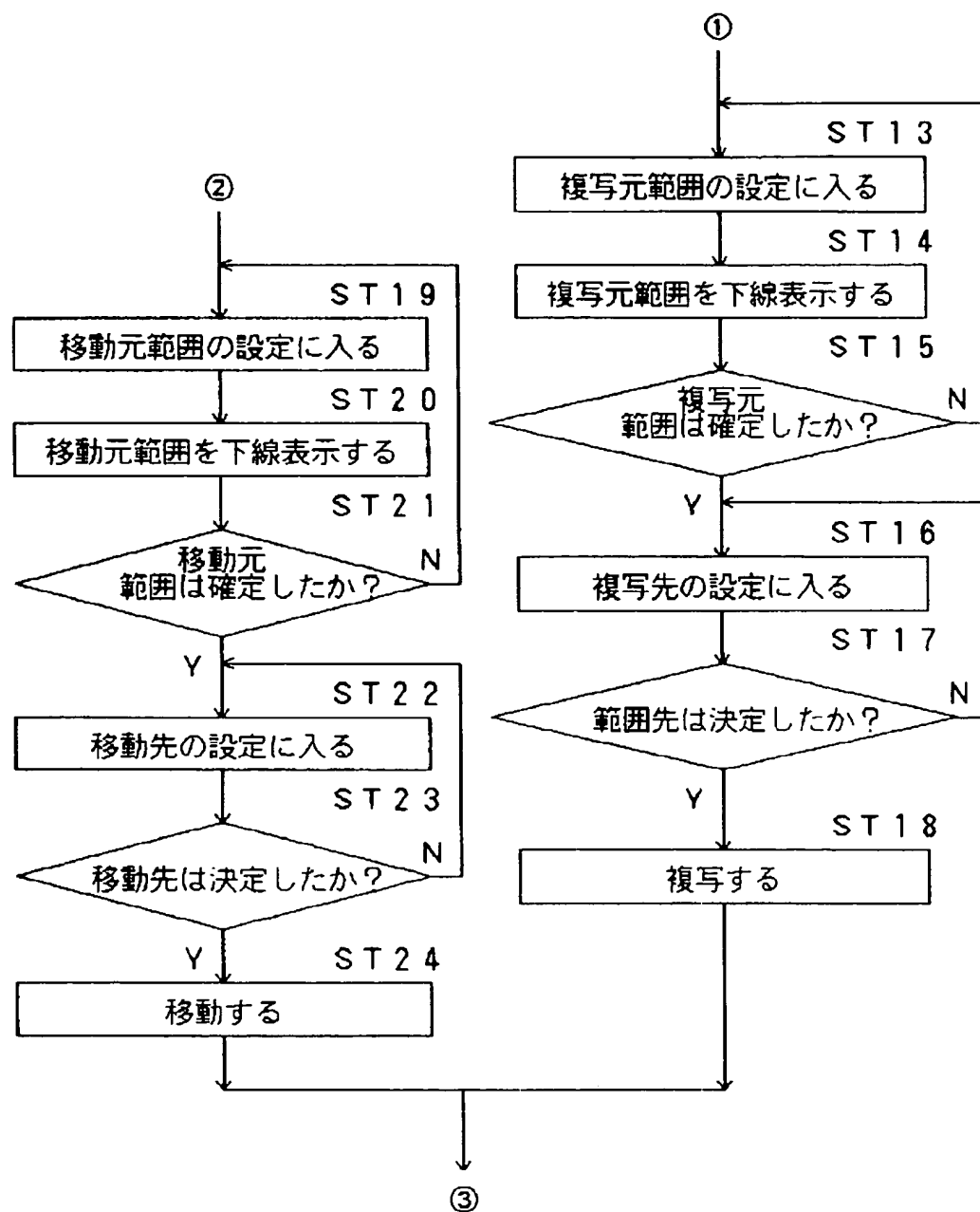
移動

(c)

[Drawing 6]



本発明の文書編集装置が実行する処理フローの他の実施例



[Drawing 9]

## 従来技術の説明図

## 実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

削除

(a)

## 実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

複写

(b)

## 実施例

第1図は本発明の文書編集装置での複写作業中の表示画面の一実施例であり、第2図は本発明の文書編集装置での移動作業中の表示画面の一実施例であり、第3図は本発明の文書編集装置での削除作業中の表示画面の一実施例である。これらはどれも一例であるので、このほかどのような表示方法でも構わない。

移動

(c)

[Translation done.]

PAT-NO: JP408278966A

DOCUMENT-IDENTIFIER: JP 08278966 A

TITLE: DOCUMENT EDITING DEVICE

---

**Abstract Text - FPAR (1):**

PURPOSE: To provide the document editing device which performs a document editing process with less errors.

**Abstract Text - FPAR (2):**

CONSTITUTION: Of the document editing device equipped with a document deleting means 8 which is called in response to the operation of a deletion key to set a document deletion area and performs a document deleting process for the document part in the document deletion area, a document copying means 9 which is called in response to the operation of a copy key to set a document copy area and performs a document copying process for the document part in the document copy area, and a document moving means 10 which is called in response to the operation of a movement key to sets a document movement area and performs a document moving process for the document part in the document movement area, the document deleting means 8 displays the document part in the document deletion area in a different display style from the document parts in the document copy area and document movement area.

**Title of Patent Publication - TTL (1):**

DOCUMENT EDITING DEVICE